PATENT COOPERATION TREATY

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:		7	рст
Rodyk & Davidson 9 Raifles Place #55-01 Republic Plaza SINGAPORE 048619		PCT NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT	
3.000		Date of it	(PCT Rule 71.1)
		Date of mailing davimonth/year	2 3 MAY 2001
Applicant's or agent's file reference LANI/99058235		IM	PORTANT NOTIFICATION
International Application No. PCT/SG00/00012 Applicant	International Filing 31 January 2000	Date	Priority Date 2 February 1999
SINGAPORE POLYTECHN	TIC et al		
1		•	
			·
2. A copy of the report and its elected Offices.	s annexes, if any, is being	transmitted to the Inte	ning Authority transmits herewith the lished on the international application. ernational Bureau for communication to all the light of the report of the re
4. REMINDER			
The applicant must enter the paying national fees) within reminder sent by the Interna			performing certain acts (filing translations a ome Offices)(Article 39(1))(see also the
Where a translation of the it translation of any annexes to prepare and furnish such tra	nternational application not the international preliminational prelimination directly to each o	nust be furnished to a inary examination rep elected Office concer	n elected Office, that translation must contain port. It is the applicant's responsibility to ned.
•		÷	ected Offices, see Volume II of the PCT
Name and mailing address of the IPEA/AU		Authorized officer	

Name and mailing address of the IPEA/AU

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PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file refer LAM/99058235	FOR FURTHI		Transmittal of International Preliminary t (Form PCT/IPEA/416).
International Application No. PCT/SG00/00012	International Fi 31 January 20	iling Date (day/month/year)	Priority Date (day/month/year) 2 February 1999
International Patent Classificat	tion (IPC) or national class	ification and IPC	1 cordary 1999
Int. Cl. 7 B22D 41/015, 4	•		
Applicant			
SINGAPORE POLY	TECHNIC et al		· .
			• •
			
1. This international pr	-1::		
and is transmitted to	the applicant according to	ort has been prepared by this Article 36	International Preliminary Examining Author
			_
X This report is a	sts of a total of) sheets	, including this cover sheet.	
			cription, claims and/or drawings which have grectifications made before this Authority (
Rule 70.16 and	i Section 607 of the Admir	nistrative Instructions under the	be PCT).
These annexes consi	ist of a total of 4 sheet(s)	 I.	•
3. This report contains indicar	ions relating to the follows:		
1 - —	¥-	ing items:	
A Date of	f the report		
III Non-es	ablishment of opinion with	n regard to novelty, inventive	step and industrial applicability
	unity of invention		
V X Reason citation	ed statement under Article s and explanations support	35(2) with regard to novelty, ing such statement	, inventive step or industrial applicability;
	documents cited	.	
VII X Certain	Certain defects in the international application		
	observations on the interna	• •	
Date of submission of the dem			
30 August 2000	and .	Date of completion of	the report
Name and mailing address of the	IDE A/AII	15 May 2001	
AUSTRALIAN PATENT OFFIC	 Æ	- Authorized Officer	-
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International application No.

PCT/SG00/00012

I.	Basis of the report
1.	With regard to the elements of the international application:
	the international application as originally filed.
	X the description, pages 1-8, as originally filed,
	pages , filed with the demand,
	pages, received on with the letter of
	X the claims, pages, as originally filed.
	pages , as amended (together with any statement) under Article 19,
	pages, filed with the demand,
	pages 9-12, received on 25 April 2001 with the letter of 25 April 2001
	X the drawings, pages 1-2, as originally filed,
	pages , filed with the demand,
	pages, received on with the letter of
Ì	the sequence listing part of the description:
l	pages , as originally filed
	pages , filed with the demand
2.	pages, received on with the letter of
<u>-</u>	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
	raise cionients were available or rurnished to this Authority in the following language, which is:
	die language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
٠.	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
1	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	_ the drawings, sheets/fig
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
•	Replacement sheets which have been furnished to the receiving OF
	report as "originally filed" and are not annexed to the receiving Office in response to an invitation under Article 14 are referred to in this Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this second.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG00/00012

ΓV.	Lack of unity of invention
1.	In response to the invitation to restrict or pay additional fees the applicant has:
	restricted the claims.
	paid additional fees.
	paid additional fees under protest.
	neither restricted nor paid additional fees.
2.	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	complied with.
	X not complied with for the following reasons:
	The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:
•	 Claims 1-28. It is considered that the means for providing a high frequency alternating curren and means for superimposing a direct current comprises a first "special technical feature".
•	 Claims 29-30. It is considered that the means for oscillating the position of the electrode comprises a second "special technical feature".
	Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.
4.	Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:
	X all parts.
	the parts relating to claims Nos.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SG00/00012

v.	Reasoned statement under Ar and explanations supporting s	ticle 35(2) with regard to novelty, inventive such statement	step or industrial applicability; citati
1.	Statement		
	Novelty (N)	Claims 2-12, 14-28	YES
		Claims 1, 13, 29-30	NO .
	Inventive step (IS)	Claims 2-12, 14-28	YES
	-	Claims 1, 13, 29-30	NO
	Industrial applicability (IA)	Claims	· YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

Citations

- (a) Patent Abstract of Japan, JP 63-144855 A (NIPPON KOKAN KK) 17 June 1988 & JP 63-144855 A
- (b) EP 18450 A1 (IWATANI SANGYO KK) 12 November 1980
- (c) GB 1035875 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 13 July 1966
- (d) US 5846287 A (KUMAR et al.) 8 December 1998
- (e) US 4670884 A (LETIZIA et al.) 2 June 1987
- (f) US 3683094 A (SCHLIENGER) 8 August 1972
- (g) US 4700769 A (OHARA et al.) 20 October 1987
- (h) Derwent Abstract Accession No.18928W/11, Class M24, SU 429099 A, (CHELYABINS METALLURG WK) 15 October 1974
- (i) US 4110546 A (STENKVIST) 29 August 1978
- (j) US 5168917 A (OKUDA et al.) 8 December 1992
- (k) Patent Abstract of Japan, JP 56-151162 A (NAKASEKO ISAO) 24 November 1981
- (l) US 4572673 A (PORTER et al.) 25 February 1986

Novelty & Inventive Step

<u>Claims 1 & 13</u> Citation (a) discloses all of the features of these claims.

Claims 29-30 Citations (c) & (h) disclose all of the features of these claims.

Claims 2-12 & 14-28
Of any of these claims.

None of the citations, or obvious combination thereof, disclose all of the feature

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SG00/00012

VII.	Certain defects in the international application	
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The following defects in the form or contents of the international application have been noted:

Claims 27-28 do not comply with Rule 6.2(a) because the claims should not rely on references to the description or the drawings.